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> **U.S. DEPARTMENT OF AGRICULTURE** AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

Exhibit C

## **OBJECTIVE DESCRIPTION OF VARIETY** Rice (Orvza sativa)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, and Zip Code, Cou	ntry)	FOR OFFICIAL USE ONLY
		PVPO NUMBER
PLEASE READ ALL INSTRUCTIONS CAREFU		
	character of this variety in the spaces provided below. The sory Committee and the US Rice Crop Advisory Committee ssible.	
1. MATURITY: Days to Heading (Seedling to 50	% Heading)	
A. South: (Location:	) atkg/ha (N	litrogen Rate)
Number of Days		
Days Earlier Than Check Variety	r	
Days Same As Check Variety	r	
Days Later Than Check Variety	r	
	2 = Early (86 – 100) ate (101 - 115) 2 = Early (86 – 100) 4 = Late (More Than 115)	
B. California: (Location:	kg/ha (l	litrogen Rate)
Number of Days		
Days Earlier Than Check Variet	r:	
Days Same As Check Variety	r	
Days Later Than Check Variety	r	
	y (90 Days or Less) 2 = Early (91 – 97) ate (98 - 104) 4 = Late (More Than 104)	
	er Flowering):  3 = Intermediate (About 45°)  5 = Open (About the culms do not rest on the ground)  ts lower part rests on the ground surface)	60°)

2. (	CULM: (continued)								
	LENGTH								
	• cm (Soil lev	el to top of extende	d panicle on main st	tem)					
	• cm Shorter Th	an Check Va	ariety:						
	Length Same	e as Check Va	ariety:						
	•cm Longer than	n Check Va	ıriety:						
	Height Class:	1 = Semidwarf	2 = Short	3 = Medium	4 = Tall				
	Internode Color: (Aft	ter Flowering):	1 = Green	2 = Light Gold	3 = Purple Lines	4 = Purple			
	Strength (Lodging R	esistance):	1 = Strong (no Loc 5 = Intermediate ( 9 = Very Weak (A	Most Plants Lodged)	3 = Moderately Strong (Most Plants Leaning) d) 7 = Weak (Most Plants Flat)				
3.	FLAG LEAF: (After Headin	ng)							
	• cm Length		-	• mm Width					
	Pubescence:	1 = Glabrous	2 = Intermediate	3 -= Pubescent					
	Leaf Angle (After He	eading):	1 = Erect	3 = Intermediate	5 = Horizontal	7 = Descending			
		1 = Pale Green 5 = Purple Margins	2 = Green 6 = Purple Blotch	3 = Dark Green 7 = Purple	4 = Purple Tips				
	Basal Leaf Sheath C	Color:	1 = Green	2 = Purple Lines	3 = Light Purple	4 = Purple			
4. I	LIGULE:								
	• mm Length (F	rom hase of collar t	o the tip at late year	etative stane)					
				<b>5</b> ,	2. Durale				
	Change	live Stage).	1 = White	2 = Purple Lines	3 = Purple	note.			
	Shape:	agatativa Ctaga).	1 = Acute to Acum			aie			
	Collar Color (Late Ve		1 = Pale Green 1 = Pale Green		3 = Purple				
	Auricle Color (Late \	regetative Stage).	i = Pale Green	2 = Purple					
5. I	PANICLE:								
	• cm Length								
	Туре:	1 = Compact 5	= Intermediate	9 = Open					
	Secondary Branchin	ng: $1 = i$	Absent	2 = Light	3 = Heavy	4 = Clustering			
	Exsertion (Near Mat	:urity): 1 = I	ess than 90%	2 = 90 - 99%	3 = 100% Exserted				
	Axis:	1 = Straight	2 = Droopy						
		Than 1%) n (26 – 50%)	3 = Low  (1 - 5%) 9 = High (More than	5 = Moderate (6 - 25%) an 50%)					
	Threshability:	1 = Difficult 2	= Intermediate	3 = Easy					
6. (	GRAIN: (Spikelet)								
	Awns (After Full Hea	ading):	0 = Absent 7 = Long and Part	1 = Short and ly Awned	Partly Awned 9 = Long and Fully	5 = Short and Fully Awned Awned			
	Apiculus Color (At M	faturity)	1 = White 5 = Red Apex	2 = Straw 6 = Purple	3 = Brown (Tawny) 7 = Purple Apex	4 = Red			
	Stigma Color:	1 = White 2	= Light Green	3 = Yellow 4	= Light Purple	5 = Purple			

6.	GRAIN: (Spikelet)											
	Lemma and Palea Color (At Mat	Lemma and Palea Color (At Maturity):										
	0 = Straw 3 = Brown Furrows on Straw 6 = Purple Spots on Straw 9 = Black	1 = Gold and/or Gold 4 = Brown (Tawny) 7 = Purple Furrows of 10 = White	d Furrows on Straw Backgrou on Straw	nd 2 = Brown Spo 5 = Reddish to 8 = Purple	ots on Straw (Piebald) Light Purple							
	Lemma and Palea Pubescence:		2 = Hairs on Lemma Keel 5 = Long Hairs (Velvety)	3 = Hairs on Upper Portion	on							
	Spikelet Sterility (At Maturity):	1 = Highly Fertile (: 7 = Highly Sterile (:		%) 5 = Partly Ster pletely Sterile (0%)	ile (50 – 74%)							
7.	GRAIN: (Seed)											
		= White 2 = Light E = Red 6 = Variab			Brown							
	Endosperm Type: 1 :	= Nonglutinous (Nonwaxy)	2 = Glutinous (Wax	y) 3 = Indetermin	ate							
	Endosperm Translucency: 1 :	= Clear	5 = Intermediate	9 = Opaque								
		= None = Medium (10 – 20% of Sam	1 = Small (Less that sple) 9 = Large (More that									
	Scent (Aroma): 0 :	= Nonscented	1 = Lightly Scented	2 = Scented								
	Shape Class (Length/Width Ratio	o):										
	Paddy 1 :	= Short (2.2:1 and Less)	2 = Medium (2.3:1 to 3.3:1)	3 = Long (3.4:1 and More	e)							
	Brown 1 :	= Short (2.0:1 and Less)	2 = Medium (2.1:1 to 3.0:1)	3 = Long (3.1:1 and More	e)							
	Milled 1 :	= Short (1.9:1 and Less)	2 = Medium (2.0:1 to 2.9:1)	3 = Long (3.0:1 and More	e)							
		ength Width nm) (mm)	Thickness (mm)	L/W 1000 Grains Ratio (grams)								
	Paddy											
	Brown											
	Milled											
	Milling Quality (% Hulls)	Milli	ing Yield (% While Kernel (hea	ad) Rice to Rough Rice)								
	% Protien	% A	amylose									
All	kali Spreading Value:	1.5% KOH Solution	1.7%	KOH Solution								
Gelatination Temperature Type: 1 = High 5 = Intermediate 7 = Low												
Amylographic Paste Viscosity (Brabender Units)												
	Peak Hot Paste	Cooled Pa	aste "Breakdown" "S	Setback"								
8.	RESISTANCE TO LOW TEMPERTURE	E:										
	Germination and Seedling Vigor	r: 1 = Low	2 = Medium	3 = High								
	Flowering (Spikelet Fertility):	1 = Low	2 = Medium	3 = High								
9.	SEEDLING VIGOR NOT RELATED TO	LOW TEMPERATURE:										
	Vigor:	1 = Low	2 = Medium	3 = High								

0 = Immune	1 =	Resistant	3 =	Moderate	ly Resistant	5 = Int	termediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible	
Group		IB			IC		ID		IE	IG	IH		
Number 1	5	45	49	54	1	17	1	13	1	1	1		
Resistance													
1. RESISTANCE	о отне	R DISEASI	ES:										
0 = Immune	1 =	Resistant	3 =	Moderate	ly Resistant	5 = Int	termediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible	
Narrow B	rown Leaf	Spot (Cero	ospora o	ryzae)			Aggr	egate Sh	neath Spo	t ( <i>Rhizoct</i> o	nia oryza	ae-sativae)	
Leaf Smu	t ( <i>Entylor</i>	na oryzae)					Strai	ght Head	t				
Brown Le	. (	Helminthosp =Bipolaris =Drechsler	oryzae)				Kern	el Smut		ia horrida) a barclayar	na)		
Leaf Scal	d ( <i>Gerlac</i>	hia oryzae)					White	e Tip Ne	matode (A	Aphelench	oides bes	sseyi)	
Hoja Blar	ca Virus						Stem	Rot (So	clerotium d	oryzae)			
Sheath R	ot (Saroc	ladium oryz	ae)										
Pythium S	Seedling E	Blight ( <i>Pythi</i>	ium sp.)				Bact	erial Blig	ht ( <i>Xanth</i>	omonas ca	mpestris	pv. oryzae)	
Sheath S	oot ( <i>Rhiz</i> o	octonia oryz	zae)				Shea	th Blight	t (Rhizoct	onia solani	)		
Other:													
2. INSECT RESIS	TANCE:												
0 = Immune	1 =	Resistant	3 =	Moderate	ly Resistant	5 = Int	termediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible	
Grasshop	per						Rice	Stink Bu	ıg ( <i>Oegal</i> ı	us pugnax)			
Rice Leafhopper					Swarm Caterpillar								
Rice Hispa				Rice Water Weevil (Lissorhoptrus oryzophilus)									
Rice Midg	je						Rice	Stalk Bo	orer ( <i>Chilo</i>	plejadellu	s)		
Least Ski	oper						Suga	rcane B	orer ( <i>Diat</i>	raea sacch	aralis)		

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